



Exhibit A1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of : Frank Forrest Humbles

Serial No.: 10/698,205

Examiner: Mayo-Pinnock, Tara L.  
Art Unit: 3671

Filing Date: 31 October 2003

Invention: SURGICAL ARM POSITIONING PAD

DECLARATION

Now comes the undersigned and declares and says as follows:

1. My name is Frank Forrest Humbles. I am a physician licensed to practice in the State of South Carolina and practice the medical specialty of anesthesiology. A copy of my curriculum vitae is attached and incorporated by reference herein.

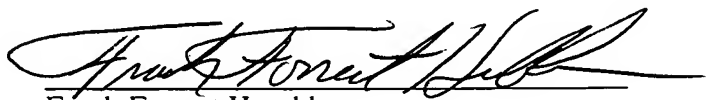
2. As part of my duties as an anesthesiologist, I am involved in positioning patients who are undergoing anesthesia in an operation. It is necessary to appropriately position a patient on an operating room table. An operation may last a few minutes or many hours and during that period of time, the patient must be kept comfortable. Patients arms must be positioned to avoid injury to the arms and its neurovascular bundles, from stretching, pressure, or other risk that accompanies a fully anesthetized patient who cannot move or give information to the operation room personnel regarding extremities, especially arms.

3. As part of these duties I recognized there was a need for a better method for an arm positioning and protection device than was available in the marketplace. The hard sleds or soft wraps such as sheets which are commonly used simply do not provide protection both for the patient and for the operating room personnel. Consequently, I devised and invented the surgical arm positioning pad which is the subject of my application. This invention provides the following advantages which have been long been recognized, but not met by any previous device on the market.

a. It provides a simple patient positioning device which can be manufactured at a reasonable price and which may be used a single time without the need for concern of compromising the sterile operative field.

- b. It can be easily applied to position a patient's arm in a safe position.
  - c. It provides cushion between the patient and operating room personnel who may need to lean against or come in contact with the patient's extremities, especially arms during an extended procedure providing comfort and protection for both.
  - d. If it is necessary to obtain access to a patient's arm for placement of an IV line or for other reasons, the device can be easily and quickly removed and then reattached or portions may be torn away to expose a limited area of a patient's arm as may be required.
  - e. The device secures the arms while allowing complete exposure of the patient's anterior torso and abdomen for operations, as well as being radiolucent for radiographs.
4. That the device is currently being marketed under the trade name of "LapWrap" and has enjoyed acceptance and success in the marketplace. Attached and incorporated herein is a printout showing sales of the device which shows that thousands of the devices have been sold. For privacy reasons the names of the hospitals that have bought these devices is deleted from this, but the device has enjoyed wide spread acceptance and use in operating room procedures in many different localities.

The undersigned declares that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements are made with knowledge that willful false statements and the like so made are punishable with fine, imprisonment or both under Section 1001 of Title 18 of the United States Code.

  
Frank Forrest Humbles  
606 Elm Street  
Conway, SC 29526

**CURRICULUM VITAE**

**FRANK FORREST HUMBLER, M.D.**

**BIRTH DATE:** August 22, 1958

**BIRTH PLACE:** Flemington, New Jersey

**SOC. SEC. #:** 145-52-4907

**HOME ADDRESS:** 606 Elm Street  
Conway, SC 29526  
Ph (843) 488-1431  
Cell (843) 602-5715  
Email [fhumbles@hotmail.com](mailto:fhumbles@hotmail.com)

**MARITAL STATUS:** Married, Margaret Kimberly Humbles

**EDUCATION:**

Hunterdon Central High School  
Flemington, New Jersey  
1976

University of New Mexico  
Albuquerque, New Mexico  
B.S. (Biology), Chemistry minor  
Dean's Honor List 1979-80  
GPA 3.50  
1976-80

East Carolina University  
Greenville, North Carolina  
Graduate courses 9 credit hours  
GPA 4.0  
1981

East Carolina University School of Medicine  
Greenville, North Carolina  
Samuel Ayers, Jr. Memorial Scholarship  
Alpha Omega Alpha 1982-86

Medical University of South Carolina  
Department of Anesthesiology  
Charleston, South Carolina  
Resident in Anesthesiology  
1986-90

Six months specialty training in Cardiothoracic Anesthesia and six months complex anesthesia. Active Pain Clinic.

Certified Flight Instructor with instrument and commercial ratings  
Single-engine Land  
land; 1500+ hours

Certified Basic SCUBA Diver YMCA

**MEDICAL  
LICENSURE:**

Diplomate American Academy of Pain Management  
North Carolina Board of Medical Examiners #34358

Diplomate of the American Board of Anesthesiology 1991  
South Carolina State Board of Medical Examiners, #13470

Diplomate of National Board of Medical Examiners

**EMPLOYMENT  
EXPERIENCE:**

Conway Anesthesiology Associates  
Conway, South Carolina  
7/90 .Present

Co-owner with Margaret Kimberly Humbles, Joan Crosby Shop,  
Ladies Apparel Shop, 7506 North Kings Highway, Myrtle Beach,  
SC, 29572, 1999-present

Neuroanatomy Lab Instructor  
East Carolina University School of Medicine 9/83 .12/83

Gross Anatomy Lab Instructor  
East Carolina University School of Medicine  
5/83 .8/83

Lab Worker, Department of Transportation and Immunology  
East Carolina University School of Medicine  
8/81 .2/82

Carpenter with Michael B. Hansen, Builders  
Ringoes, New Jersey  
4/81 .8/81

Dairy Herdsman, Fulper Farms, Inc.  
Lambertville, New Jersey  
9/80 .4/81

Assistant Curator of University of New Mexico microbial  
Collection  
Department of Biology, University of New Mexico  
Albuquerque, New Mexico  
1/79 .5/79

Laborer with Maintenance Department  
National Park Service, Wright Brothers Memorial  
Kitty Hawk, North Carolina  
8/78 .10/78

Lab Technician, worked on an environmental impact statement for  
the Waste Isolation Pilot Project (WIPP) site near Carlsbad, New  
Mexico, Department of Biology, University of New Mexico  
Albuquerque, New Mexico

Dump Truck Driver, Aron Excavating  
Stockton, New Jersey  
5/77 .8/77

**PROFESSIONAL**  
**SOCIETY**  
**MEMBERSHIPS:**

SCMA S. C. Institute of Medical Education & Research Foundation  
Board Member, 1994-2000  
Conway Hospital Medical Staff, 1990 .Present ~  
ICU Committee, Conway Hospital, 1990 .92  
Perinatal Committee, Conway Hospital, 1993-2007

American Society of Anesthesiologists  
South Carolina Society of Anesthesiologists  
South Carolina Medical Association  
American Medical Society  
Alpha Omega Alpha Medical Honor Society  
ECU Honor Code Committeemen Co-chairman 1985-86  
Member Kingston Presbyterian 1999-  
Carolina University Athletic Booster Club Board 1999-2003  
Chairman, Conwayborough Historic Neighborhood Association,  
2002-2006, 2010-

### **PUBLICATIONS:**

“Teflon Epidural Catheter Placement for Intermittent Celiac Plexus Blockade and Celiac Plexus Neurolytic Blockade”, a case report  
Accepted for publication: Regional Anesthesia Journal, March-April 1990, Vol. 15 #2, pp. 103-105.

“sKiller, Mayhem on the Mountain” Novel by Frank Forrest Humbles  
Published November, 2008

### **PRESENTATIONS:**

“Postoperative Nausea and Vomiting: Etiology, Prevention, and Management.” Presented: Section on Anesthesiology of the 82nd Annual Meeting of the Southern Medical Association, New Orleans, Louisiana November 6-9, 1988

### **HONORS AND AWARDS:**

Samuel Ayers Scholarship, 1986-1990  
Southern Medical Association’s 1988 Residents In Training Award,  
Section on Anesthesiology, Second Place Award  
Physician Recognition Award AMA, 1991-1995

**HOBBIES AND**  
**INTERESTS:**

Golf, hunting, fishing, water skiing, flying, sailing, SCUBA diving,  
writing, travel

## EXHIBIT A3

Document Date	Year	SOP Type	SOP Number	Item Number	Item Description	QTY
1/8/2007	2007	Invoice	INV000115	904	LAP WRAP (10/CASE)	2
1/17/2007	2007	Invoice	INV000370	904	LAP WRAP (10/CASE)	2
1/29/2007	2007	Invoice	INV000542	904	LAP WRAP (10/CASE)	1
1/29/2007	2007	Invoice	INV000545	904	LAP WRAP (10/CASE)	2
2/15/2007	2007	Invoice	INV000851	904	LAP WRAP (10/CASE)	1
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4/18/2007	2007	Invoice	INV002102	904	LAP WRAP (10/CASE)	1
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5/16/2007	2007	Invoice	INV002589	904	LAP WRAP (10/CASE)	6
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7/11/2007	2007	Invoice	INV003627	904	LAP WRAP (10/CASE)	6
8/1/2007	2007	Invoice	INV004003	904	LAP WRAP (10/CASE)	1
8/9/2007	2007	Invoice	INV004165	904	LAP WRAP (10/CASE)	1
8/15/2007	2007	Invoice	INV004254	904	LAP WRAP (10/CASE)	2
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9/13/2007	2007	Invoice	INV004737	904	LAP WRAP (10/CASE)	2
9/13/2007	2007	Invoice	INV004739	904	LAP WRAP (10/CASE)	6
9/28/2007	2007	Invoice	INV005017	904	LAP WRAP (10/CASE)	2
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10/19/2007	2007	Invoice	INV005429	904	LAP WRAP (10/CASE)	4
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2/22/2008	2008	Invoice	INV007800	904	LAP WRAP (10/CASE)	3
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8/14/2009	2009 Invoice	INV020065	904	LAP WRAP (10/CASE)	2
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9/1/2009	2009 Invoice	INV020528	904	LAP WRAP (10/CASE)	2
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9/10/2009	2009 Invoice	INV020738	904	LAP WRAP (10/CASE)	2
9/21/2009	2009 Invoice	INV020955	904	LAP WRAP (10/CASE)	1
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10/12/2009	2009 Invoice	INV021580	904	LAP WRAP (10/CASE)	2
10/23/2009	2009 Invoice	INV021948	904	LAP WRAP (10/CASE)	3
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12/16/2009	2009 Invoice	INV023475	904	LAP WRAP (10/CASE)	2
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3/23/2010	2010 Return	RMA001712	904	LAP WRAP (10/CASE)	-2
3/31/2010	2010 Invoice	INV026156	904	LAP WRAP (10/CASE)	1
4/6/2010	2010 Invoice	INV026310	904	LAP WRAP (10/CASE)	1
4/6/2010	2010 Invoice	INV026345	904	LAP WRAP (10/CASE)	2

4/7/2010	2010 Invoice	INV026379	904	LAP WRAP (10/CASE)	1
4/13/2010	2010 Invoice	INV026518	904	LAP WRAP (10/CASE)	1
4/15/2010	2010 Invoice	INV026616	904	LAP WRAP (10/CASE)	1
4/19/2010	2010 Invoice	INV026686	904	LAP WRAP (10/CASE)	2
4/21/2010	2010 Invoice	INV026765	904	LAP WRAP (10/CASE)	2
4/21/2010	2010 Invoice	INV026779	904	LAP WRAP (10/CASE)	1
4/23/2010	2010 Invoice	INV026856	904	LAP WRAP (10/CASE)	1
4/26/2010	2010 Invoice	INV026909	904	LAP WRAP (10/CASE)	1
4/27/2010	2010 Invoice	INV026932	904	LAP WRAP (10/CASE)	1
4/28/2010	2010 Invoice	INV026980	904	LAP WRAP (10/CASE)	1
4/29/2010	2010 Invoice	INV026991	904	LAP WRAP (10/CASE)	1
4/30/2010	2010 Invoice	INV027021	904	LAP WRAP (10/CASE)	1
5/4/2010	2010 Invoice	INV027066	904	LAP WRAP (10/CASE)	1
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5/7/2010	2010 Invoice	INV027227	904	LAP WRAP (10/CASE)	2
5/10/2010	2010 Invoice	INV027254	904	LAP WRAP (10/CASE)	1
5/17/2010	2010 Invoice	INV027442	904	LAP WRAP (10/CASE)	1
5/18/2010	2010 Invoice	INV027463	904	LAP WRAP (10/CASE)	1
5/19/2010	2010 Invoice	INV027519	904	LAP WRAP (10/CASE)	1
5/20/2010	2010 Invoice	INV027547	904	LAP WRAP (10/CASE)	1
5/20/2010	2010 Invoice	INV027556	904	LAP WRAP (10/CASE)	3
5/21/2010	2010 Invoice	INV027566	904	LAP WRAP (10/CASE)	1
6/1/2010	2010 Invoice	INV027782	904	LAP WRAP (10/CASE)	1
6/2/2010	2010 Invoice	INV027841	904	LAP WRAP (10/CASE)	3
6/2/2010	2010 Invoice	INV027847	904	LAP WRAP (10/CASE)	1
6/7/2010	2010 Invoice	INV027952	904	LAP WRAP (10/CASE)	1
6/14/2010	2010 Invoice	INV028156	904	LAP WRAP (10/CASE)	2
6/16/2010	2010 Invoice	INV028221	904	LAP WRAP (10/CASE)	1
6/17/2010	2010 Invoice	INV028268	904	LAP WRAP (10/CASE)	2
6/18/2010	2010 Invoice	INV028302	904	LAP WRAP (10/CASE)	1
6/28/2010	2010 Invoice	INV028506	904	LAP WRAP (10/CASE)	1



EXHIBIT B

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Frank Forrest Humbles

Serial No.: 10/698,205

Examiner: Mayo-Pinnock, Tara L.

Filing Date: 31 October 2003

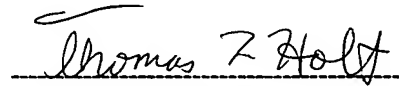
Art Unit: 3671

Invention: SURGICAL ARM POSITIONING PAD

Now comes the undersign who declares and says as follows:

1. My name is Thomas Holt and I am a resident of Conway, SC.
2. That I am a Certified Registered Nurse Anesthetist who is licensed to practice this profession in the State of South Carolina. A copy of my curriculum vitae is attached and incorporated by reference herein.
3. As part of practicing my profession I have become familiar with the surgical arm positioning pad invented by Dr. Frank F. Humbles and sold under the trade name "Lap Wrap".
4. That the surgical arm positioning pad referenced above represents an advance of prior art devices such as hard sleds or using sheets or soft wraps. This device meets important needs for positioning and protection of patient's extremities, especially arms, in that it does the following: positions the patients arm in a comfortable and secure manner next to the torso thus allowing the surgeon and assistants to be close to the operating field for procedures on the torso and head and neck. The wrap safely pads the pressure points on the arms, yet still allows easy access to the upper extremities for IV lines, arterial lines, blood pressure cuffs and other monitors.
5. I think the surgical arm positioning pad, "LapWrap" has met a long felt, but previously unmet need for an arm positioning device to be used in an operating room. I have been in practice for 26 years and this is the safest and easiest to use arm positioning device, and to my knowledge is the only one of its kind I have ever seen in an operating room.

The undersign declares that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements are with knowledge that willful false statements and the like so made are punishable with fine, imprisonment or both under Section 1001 of Title 18 of the United States Code.

A handwritten signature in black ink, reading "Thomas Z Holt", written over a horizontal dashed line.

Thomas Holt CRNA  
Conway Medical Center  
300 singleton ridge rd.  
Conway, SC 29526  
ph 843 347 8188

# Curriculum Vitae

Thomas L. Holt CRNA, MSN.  
8260 Timber Ridge Rd.  
Conway, SC. 29526  
(843) 347-2535.

**Objective:** Full-time Staff Nurse Anesthetist Position.

**Education:** Master of Science in Nursing. Old Dominion University, Norfolk, VA.  
August 1995. Member of Sigma Theta Tau International Honor  
Society of Nursing. G.P.A. 3.74 (4.0-A).

Baccalaureate Degree in Anesthesia and Biology. Old Dominion  
University, Norfolk, VA. Degree obtained concurrently with  
successful completion of the DePaul School of Nurse Anesthesia.  
December 1986. G.P.A. 3.78 (4.0-A). Registered 1987.

Associates Degree in Nursing. Northern VA Community College,  
Annandale, VA. 1983. G.P.A. 3.70 (4.0-A).

Associates Degree in Respiratory Therapy. Washtenaw Community  
College, Ann Arbor, MI. 1977. G.P.A. 3.5 (4.0-A).

**Employment:**

Full-time: The Conway Medical Center, Conway SC. Staff Nurse Anesthetist.

Full-time: Roanoke-Chowan Hospital, Ahoskie NC. Community Hospital. April  
1997-Sept. 2002. Staff Nurse Anesthetis

Full-Time: Julius J. Snyder Md. and Associates. Meeting Anesthesia staffing needs  
for Sentara Norfolk General Hospital, a level 1 trauma center, and Sentara Leigh Memorial  
Hospital. Specialties include; Trauma, Plastics, Neuro, Ent, Urology, Orthopedics, Ophthalmology,  
Gyn, General surgery, Outpatient surgery as well as Obstetrics. No Cardiac and minimal Peds.  
Actively participated as a didactic and clinical instructor for the Norfolk General, and now, the Old  
Dominion University School of Nurse Anesthesia. Norfolk, VA. Proficient in general and regional  
anesthesia. October 1990-April 1997.

Full-Time: The DePaul Medical Center, Norfolk, VA. Staff Nurse Anesthetis, as  
well as, clinical and didactic instructor for the DePaul School of Nurse Anesthesia. Similar duties,  
but fewer specialties. December 1986- October 1990.

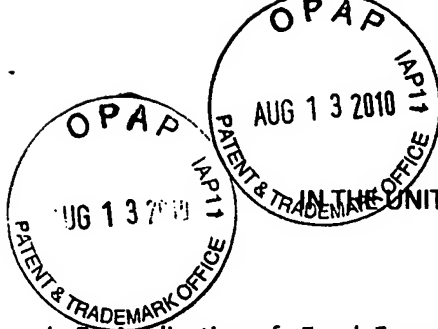
Part-Time: The Center for Cosmetic Surgery, Virginia Beach, VA. Since 1988.  
Chesapeake General Hospital, Chesapeake, VA. 1988-1990. The Northampton-Accomack  
Hospital, Accomack, VA. 1987-1989. Southampton Memorial Hospital, Franklin, VA. 1988-1990.

**Personal:** Born 2/23/50, Married since 1982, wife Linda, daughter Amy (16), son Matthew  
(14).

**Interests:** Anesthesia, Gardening, Guitar, Antiques, Chess, fishing.

**Personal Note:** It is my endeavor to be an intelligent, informed, thorough, genuine, courteous,  
prompt, self-motivated professional who is self-directed in my primary objective, which is the  
delivery of safe, high quality patient care.

Ex 11131T C



UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Frank Forrest Humbles

Serial No.: 10/698,205

Examiner: Mayo-Pinnock, Tara L.

Filing Date: 31 October 2003

Art Unit: 3671

Invention: SURGICAL ARM POSITIONING PAD

Now comes the undersign who declares and says as follows:

1. My name is Paul L. Sasser and I am a resident of Conway, South Carolina
2. That I am a general/vascular surgeon who is licensed to practice this profession in the State of South Carolina. A copy of my curriculum vitae is attached and incorporated by reference herein.
3. As part of practicing my profession I have become familiar with the surgical arm positioning pad invented by Dr. Frank F. Humbles and sold under the trade name "Lap Wrap".
4. That the surgical arm positioning pad referenced above represents an advance of prior art devices such as hard sleds or using sheets or soft wraps. This device meets important needs for positioning and protection of patient's extremities, especially arms, in that it does the following: positions the patients arm in a comfortable and secure manner next to the torso thus allowing the surgeon and assistants to be close to the operating field for procedures on the torso and head and neck. The wrap is quick and easy to apply, protects the patient's arms from neurovascular injury but also allows for easy access to the arms for nerve monitoring or vascular access.
5. I think the surgical arm positioning pad, "LapWrap" has met a long felt, but previously unmet need for an arm positioning device to be used in an operating room. The "Lap Wrap" is on my needs card for all my head and neck surgery as well as my laparoscopic surgeries.



The undersign declares that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements are with knowledge that willful false statements and the like so made are punishable with fine, imprisonment or both under Section 1001 of Title 18 of the United States Code.

A handwritten signature in black ink, appearing to read "Paul L. Sasser", is written over a horizontal dashed line.

Paul L Sasser MD FACS

**Associates In Surgery Pa**

2361 Cypress Circle  
Conway, SC 29526-8921  
(843) 347-7291



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- [Physicians](#)
- [Photo Gallery](#)
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## **Paul L Sasser MD FACS**

### **Associates in Surgery - Conway, SC**

Active Staff - Conway Medical Center and Waccamaw Community Hospital  
General, Thoracic, & Vascular Surgery

### **Certifications**

**Board Certified, American Board of Surgery**

**Fellow, American College of Surgeons**

### **Education**

Wofford College  
Spartanburg, SC  
1978-1982 Student body president.

Medical University of South Carolina  
Charleston, SC - Medical School  
1982-1986

New York Medical College  
New York, NY - Surgery Internship  
1986-1987

Greenville Memorial Medical Center  
Greenville, SC - Surgery Residency  
1987-1992

## Proficiencies

Vascular Surgery

## Professional Affiliations

Horry County Medical Association

South Carolina Surgical Association

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Dr. Paul Sasser is a graduate of the Medical University of South Carolina (MUSC) and is Board Certified in General Surgery from the American Board of Surgery. He completed his internship New York Medical College and residency at Greenville Memorial Medical Center. Since Dr. Sasser came to Horry County in 1992, he has striven for excellence in general surgery for our community. With his commitment to provide quality patient care in all aspects of the surgical experience, Dr. Sasser takes pride in good outcomes for his patients. Dr. Sasser is interested in new surgical techniques such as minimally invasive endovascular techniques.

## Our Physicians

Dr Michael Ellis

Dr Paul Sasser

Dr Aaron Epstein

Dr Gilbertas Rimkus



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EXHIBIT D

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: Frank Forrest Humbles

Serial No.: 10/698,205

Examiner: Mayo-Pinnock, Tara L.

Filing Date: 31 October 2003

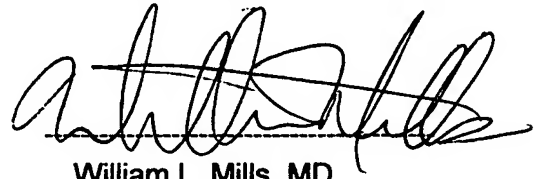
Art Unit: 3671

Invention: SURGICAL ARM POSITIONING PAD

Now comes the undersign who declares and says as follows:

1. My name is William L. Mills and I am a resident of Conway, South Carolina.
2. That I am an Orthopedic spine surgeon who is licensed to practice this profession in the State of South Carolina. A copy of my curriculum vitae is attached and incorporated by reference herein.
3. As part of practicing my profession I have become familiar with the surgical arm positioning pad invented by Dr. Frank F. Humbles and sold under the trade name "LapWrap".
4. That the surgical arm positioning pad referenced above represents an advance of prior art devices such as hard sleds or using sheets or soft wraps. This device meets important needs for positioning and protection of patient's extremities, especially arms, in that it does the following: positions the patients arm in a comfortable and secure manner next to the torso thus allowing the surgeon and assistants to be close to the operating field for procedures on the anterior cervical spine. The wrap is quick and easy to apply, protects the patient's arms from neurovascular injury but also allows for easy access to the arms for spinal cord nerve monitoring during my anterior cervical spine surgery.
5. I think the surgical arm positioning pad, "LapWrap" has met a long felt, but previously unmet need for an arm protective/positioning device to be used in an operating room. I have used the Lap wrap for years now and have recommended it to many other spine surgeons as well.

The undersign declares that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true and further that these statements are with knowledge that willful false statements and the like so made are punishable with fine, imprisonment or both under Section 1001 of Title 18 of the United States Code.

A handwritten signature in black ink, appearing to read 'William L. Mills', written over a horizontal line.

**William L. Mills, MD**

Coastal Orthopaedic Associates, P.A.  
2376 Cypress Circle, Suite 300  
Conway, SC 29526 • Phone: 843-347-7222

EXHIBIT D1

**Coastal Orthopaedic Associates, P.A.**

**About Us: About Our Doctors**



**William L. Mills, MD**

Board-Certified Orthopaedic Surgeon

Specializing in Orthopaedic Surgery & Spinal Surgery

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Dr. Mills received his Bachelor of Science Degree from the Citadel in Charleston, South Carolina. His Doctorate of Medicine was obtained from the University of South Carolina School of Medicine in Columbia, South Carolina. Dr. Mills completed an orthopaedic residency at the University of South Carolina School of Medicine, Columbia, South Carolina, and a Fellowship in Spinal Surgery at the South Texas Spinal Clinic in San Antonio, Texas. Dr. Mills is certified by the American Board of Orthopaedic Surgery. Dr. Mills is married, the father of two children, and lives in Conway.

**Medical Degree**

University of South Carolina School of Medicine  
Columbia, SC

**Orthopaedic Surgery Residency**

University of South Carolina School of Medicine  
Columbia, SC

**Spinal Surgery Fellowship**

South Texas Spinal Clinic  
San Antonio, TX

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